

WHAT IS CLAIMED IS:

1                   1.     A computer implemented method in a network for transmitting  
2 information between a web browser and a proxy server, comprising:  
3                   initiating and sending an HTTP request from the web browser to the proxy  
4 server, the HTTP request having a script identifier;  
5                   extracting the script identifier from the HTTP request, and thereafter searching  
6 a database for the script associated with the script identifier;  
7                   executing the script associated with the script identifier at the proxy server;  
8                   generating a result from the script associated with the script identifier; and  
9                   transmitting the result from the proxy server to the web browser.

1                   2.     The method of claim 1, wherein the proxy server is a gateway to the  
2 Internet for a user of the web browser, and wherein the result generated from the script uses  
3 result information obtained by the proxy server via the Internet.

1                   3.     The method of claim 2, wherein the HTTP request from the web  
2 browser to the proxy server is a first HTTP request, wherein executing the script at the proxy  
3 server results in an HTTP response being sent from the proxy server to the web browser, such  
4 HTTP response requesting personalized information for the user, and wherein the web  
5 browser responds with a second HTTP request having such personalized information.

1                   4.     The method of claim 3, wherein the first and second HTTP requests to  
2 the proxy server are encoded for being interpreted at the proxy server and then discarded  
3 without being forwarded to the Internet.

1                   5.     The method of claim 3, wherein the personalized information is  
2 information required for accessing a website via the Internet.

1                   6.     The method of claim 3, wherein the personalized information in the  
2 second HTTP request is extracted by the proxy server, and the proxy server uses such  
3 personalized information to obtain the results information via the Internet.

1                   7.     The method of claim 6, wherein the personalized information  
2 extracted from the second HTTP request is stored in a database for subsequent use by the  
3 proxy server in response to subsequent HTTP requests originating from the same user.

1                   8.       The method of claim 6, wherein the results information obtained via  
2 the Internet is information at a website, wherein the website facilitates transactions  
3 concerning personal accounts, and wherein the personalized information is required for  
4 accessing personal account information of the user at such website.

1                   9.       The method of claim 8, wherein the website facilitates transactions  
2 concerning financial accounts.

1                   10.      The method of claim 8, wherein website facilitates retail transactions  
2 by the user, and wherein the personalized information is required for conducting a retail  
3 transaction at such website.

1                   11.      The method of claim 6, wherein the personalized information  
2 comprises a user name and password.

1                   12.      The method of claim 6, wherein the personalized information  
2 comprises a cookie previously stored at a user machine associated with the web browser.

1                   13.      The method of claim 6, wherein the result information includes a  
2 cookie to be stored at a user machine associated with the web browser.

1                   14.      A computer implemented method for a user to access a website  
2 through a proxy impersonating the user, comprising:  
3                   sending an Internet Protocol (IP) message from the user to the proxy;  
4                   receiving the IP message at the proxy;  
5                   parsing the IP message at the proxy, extracting a script identifier from the IP  
6 message, and thereafter searching a database for the script associated with the script  
7 identifier;  
8                   executing the script associated with the script identifier;  
9                   generating a result from the script associated with a script identifier; and  
10                  sending the result from the proxy to the user.

1                   15.      The method of claim 14, wherein the IP message is a first HTTP  
2 message.

1           16.     The method of claim 15, wherein in response to executing the script, a  
2 second HTTP message is sent from the proxy to the user requesting a username and a  
3 password, the second HTTP message resulting in a prompt at the user for entering a username  
4 and password.

1           17.     The method of claim 16, further comprising  
2 sending a third HTTP message with the username and password from the user  
3 to the proxy;  
4 extracting the username and password from the third HTTP message at the  
5 proxy, and discarding the third HTTP message; and  
6 further executing the script associated with the script identifier using the  
7 username and password extracted from the third HTTP message.

1           18.     The method of claim 15, wherein in response to executing the script, a  
2 second HTTP message is sent from the proxy server to the user pointing to the website and  
3 resulting in a third HTTP message being sent to the proxy and intended by the user for the  
4 website, the user providing a cookie associated with the website and accompanying the third  
5 HTTP message.

1           19.     The method of claim 18, wherein the proxy extracts the cookie from  
2 the third HTTP message, discards that message, and uses the cookie in further execution of  
3 the script.

1           20.     In a network having a plurality of users with web browsers and  
2 connected for accessing websites via the Internet, a database, and a proxy for impersonating a  
3 user, the proxy comprising:

4           a server for executing scripts that are stored in the database and that represent  
5 executable programming code, the server executing the scripts in order to request information  
6 from a specific user, to request information from a website to be accessed by the specific  
7 user, and to use the requested information to generate results for the specific user;

8           wherein the server receives an HTTP message from the web browser of the  
9 specific user when access to the website is requested, such message including a script  
10 identifier for a script to be executed by the server in order to access the website;

11           wherein the server extracts the script identifier from the HTTP message,  
12 discards the message, and executes the identified script; and

13 wherein in response to execution of the identified script the server requests  
14 information from at least one of the specific user and the website, uses such information in  
15 further executing the identified script, and provides a result to the user.

1 21. The proxy of claim 20, wherein in response to execution of the script  
2 the server sends a second HTTP message to the web browser of the specific user requesting  
3 personalized information of that user, and wherein in response to the second HTTP message  
4 the web browser sends a third HTTP message to the server having such personalized  
5 information, the third HTTP message being discarded by the server after such personalized  
6 information is extracted by the server.

1 22. The proxy of claim 21, wherein the personalized information is a user  
2 name and password.

1 23. The proxy of claim 21, wherein the personalized information is a  
2 cookie previously stored at the user by the website.

1 24. In a network having a plurality of users with web browsers and  
2 connected for accessing websites via the Internet, a data storage means, and a proxy for  
3 impersonating a user, the proxy comprising:  
4 server means for executing scripts stored in the data base means in order to  
5 request information from a specific user,  
6 request information from a website to be accessed by the specific user,  
7 and

8 use the requested information to generate results for the specific user;  
9 wherein the server means receives an HTTP message from the specific user  
10 when access to the website is requested, such message including a script identifier for a script  
11 to be executed by the server means in order to access the website;

12 wherein the server means extracts the script identifier from the HTTP  
13 message, discards the message, and executes the identified script; and

14 wherein in response to execution of the identified script the server means  
15 requests information from at least one of the specific user and the website, uses such  
16 information in further executing the identified script, and provides a result to the user.

1 25. A network comprising:

2 a plurality of users, each user having a web browser for accessing websites via  
3 the Internet; and

4 a proxy for impersonating specific users and for connecting those users to the  
5 Internet;

6 wherein the proxy server receives an HTTP request from a user having  
7 personal information relating to the user, such personal information also relating to a specific  
8 website; and

9 wherein the proxy extracts the personal information from the HTTP request  
10 and uses the extracted personal information to obtain results for the user.

1 26. The network of claim 25, wherein the proxy also receives information  
2 from the specific website and uses both the personal information and the website information  
3 to obtain results for the user.

1 27. The network of claim 25 wherein the proxy stores the personal  
2 information in a data storage device.

1 28. The network of claim 27 wherein in subsequent HTTP requests to the  
2 website that do not contain personal information, the proxy uses the stored personal  
3 information to obtain results for the user.

1 29. The network of claim 27 where the personal information is a user name  
2 and password.

1 30. The network of claim 27 where the personal information is a cookie.  
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1 31. The network of claim 25, wherein the HTTP request from the user is  
2 sent in response to an HTTP redirect message from the proxy, the HTTP redirect message  
3 pointing to the specific website.

1 32. In a network having a plurality of users connected for accessing  
2 websites via the Internet, a database, and a proxy for impersonating a user, the proxy  
3 comprising:

4 a server;

5 wherein the server receives an HTTP message from a specific user, such  
6 message including personalized information for the specific user;

7                    wherein the server extracts the personalized information from the HTTP  
8 message, and uses such personalized information to provide a result to the user; and  
9                    wherein the personalized information extracted by the server is stored in the  
10 database, so that when the server subsequently receives an HTTP message from the user, the  
11 stored personalized information can be used by the server without requesting such  
12 information from the user.